

NOTES: UNLESS OTHERWISE SPECIFIED

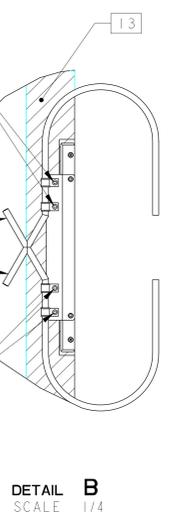
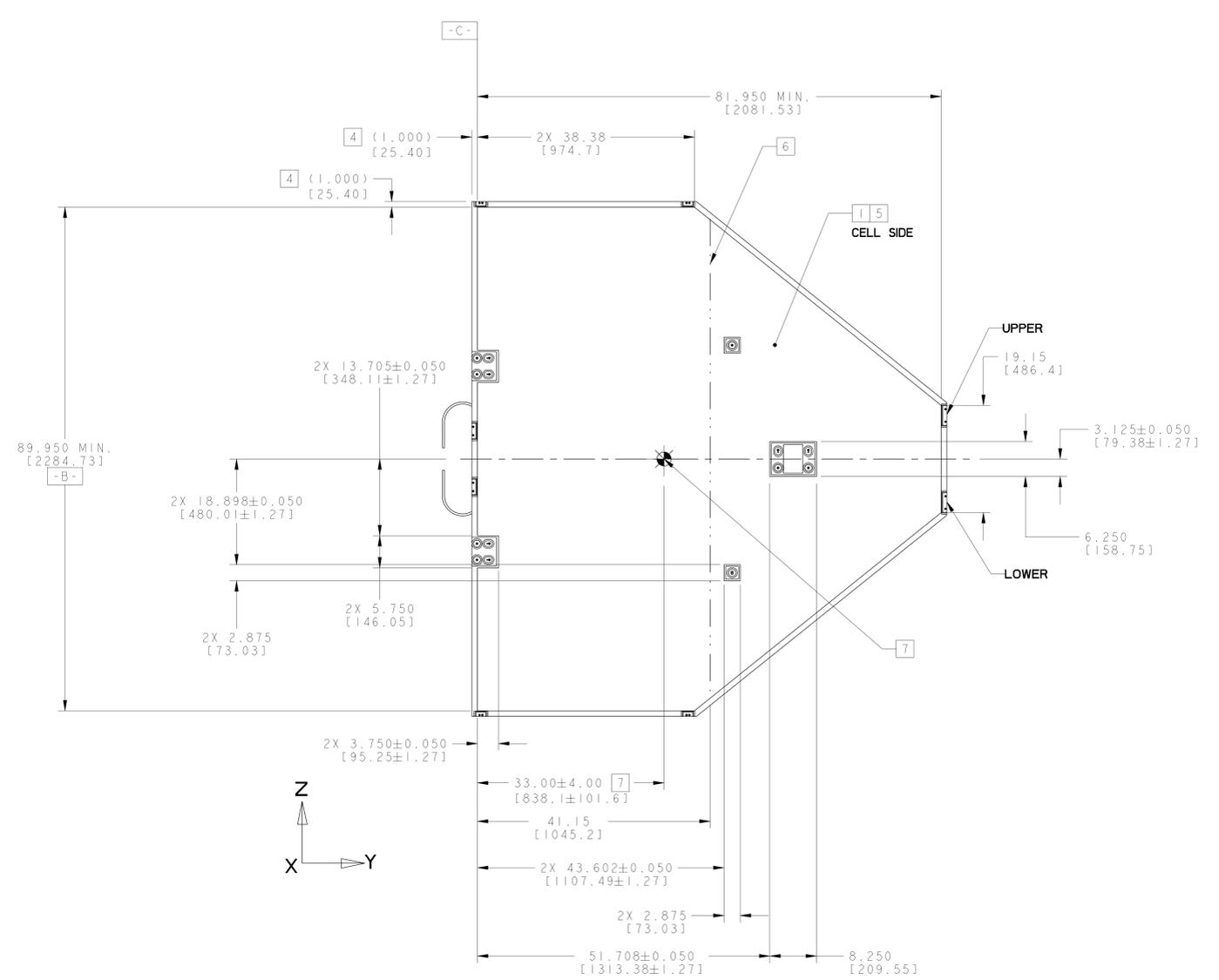
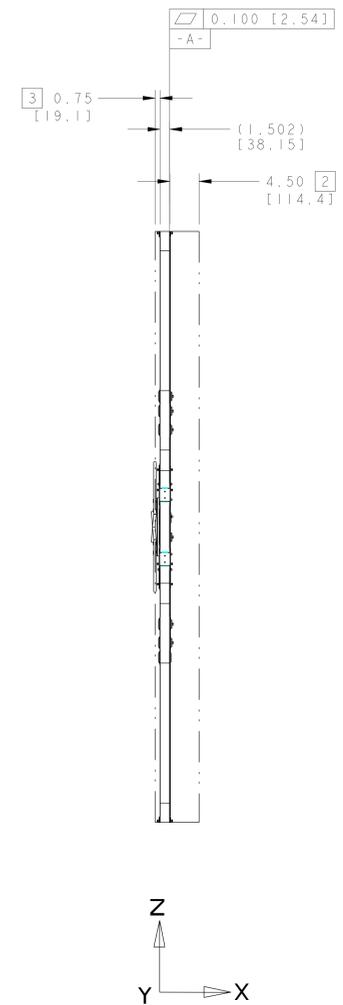
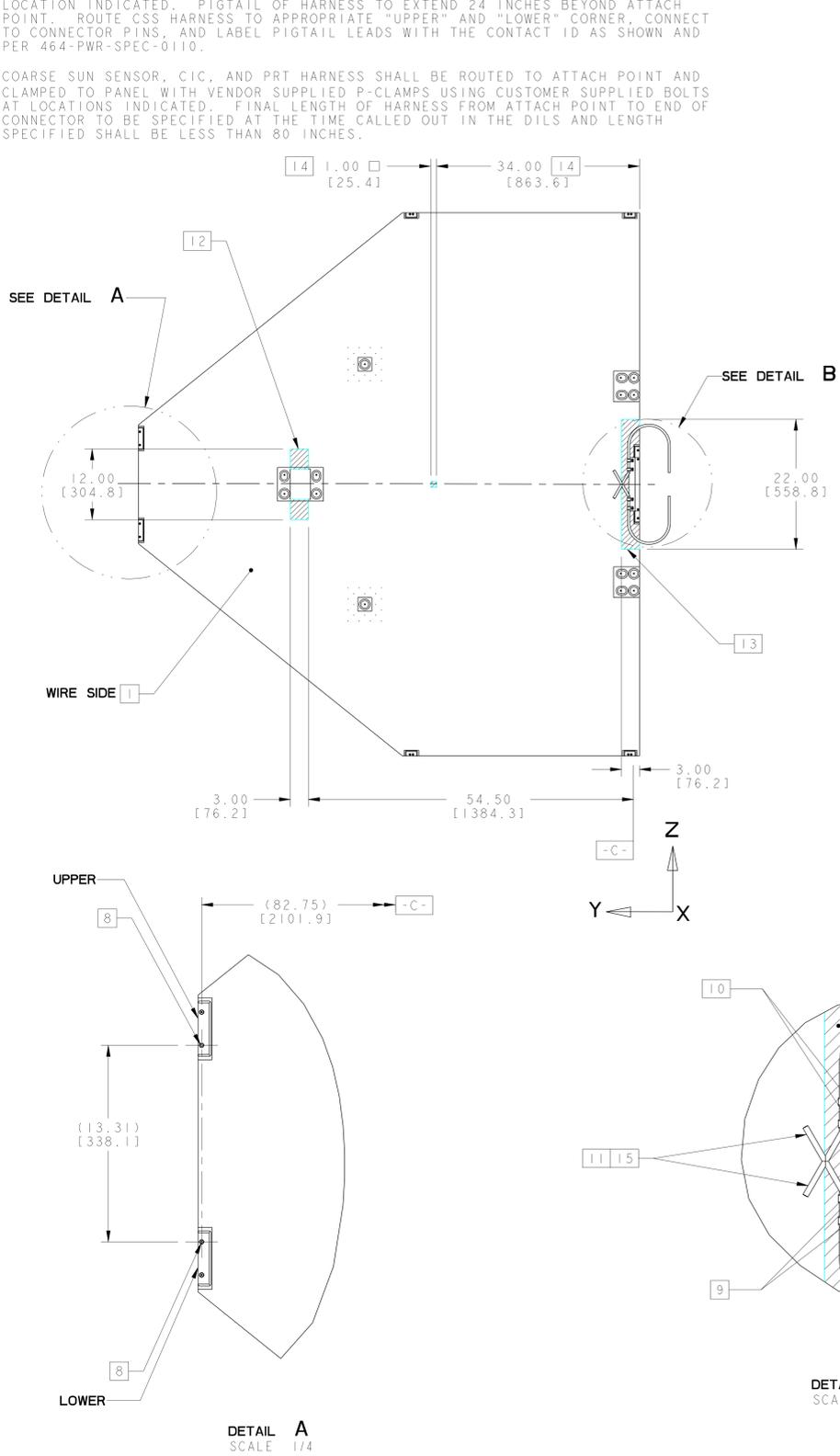
- 1 SPECIFIED AREA IS STAY-IN ZONE FOR CELLS, ELECTRICAL WIRES, ELECTRICAL EQUIPMENT, AND WIRE PASS-THROUGH HOLES. SAME DIMENSIONS FOR STAY-IN ZONE APPLY TO CELL SIDE AND WIRE SIDE. HOLES FOR WIRE PASS-THROUGH SHALL NOT EXCEED A TOTAL AREA OF 6.5 IN<sup>2</sup> WITH A MAXIMUM OF 0.1 IN<sup>2</sup> PER 1.0 IN<sup>2</sup> AND 0.2 IN<sup>2</sup> PER 8.0 IN<sup>2</sup>. GODDARD SPACE FLIGHT CENTER TO DRILL ALL HOLES. VENDOR TO SUPPLY GODDARD SPACE FLIGHT CENTER WITH HOLE LOCATIONS.
- 2 SOLAR CELL STACK STAY-IN ZONE THICKNESS.
- 3 WIRING AND ELECTRICAL EQUIPMENT STAY-IN ZONE THICKNESS.
- 4 PANEL SIZE IS GREATER THAN CELL AREA BY APPROXIMATELY 1.00" IN ALL DIRECTIONS AROUND THE CELL AREA PERIMETER AS SHOWN.
- 5 ENTIRE CELL AREA SURFACE, EXCLUDING HOLES, SHALL BE COVERED WITH 0.002 THK KAPTON HN. SURFACE SHALL HAVE A SURFACE RESISTANCE > 100E6 OHMS AT 100V AT 20±1°C WHEN MEASURED WITH A 4 cm<sup>2</sup> WET PROBE.
- 6 ORIENTATION AND LOCATION OF KAPTON SEAM.
- 7 MASS OF COMPONENTS TO BE PROVIDED BY SOLAR CELL VENDOR FOR SOLAR CELLS, WIRING, AND OTHER HARDWARE SHALL BE PLACED WITH A CG LOCATION AT THE CENTER OF THE PANEL ALONG THE Z-AXIS ± 4.00" AND OFFSET FROM THE Z-AXIS IN THE Y DIRECTION 33.00 ± 4.00" AS SHOWN.
- 8 COARSE SUN SENSOR HARNESS SHALL BE ROUTED TO ATTACH POINT AND CLAMPED TO PANEL WITH VENDOR SUPPLIED P-CLAMP USING CUSTOMER SUPPLIED BOLT AT LOCATION INDICATED. PIGTAIL OF HARNESS TO EXTEND 24 INCHES BEYOND ATTACH POINT. ROUTE CSS HARNESS TO APPROPRIATE "UPPER" AND "LOWER" CORNER CONNECT TO CONNECTOR PINS, AND LABEL PIGTAIL LEADS WITH THE CONTACT ID AS SHOWN AND PER 464-PWR-SPEC-0110.
- 9 COARSE SUN SENSOR, CIG, AND PRT HARNESS SHALL BE ROUTED TO ATTACH POINT AND CLAMPED TO PANEL WITH VENDOR SUPPLIED P-CLAMPS USING CUSTOMER SUPPLIED BOLTS AT LOCATIONS INDICATED. FINAL LENGTH OF HARNESS FROM ATTACH POINT TO END OF CONNECTOR TO BE SPECIFIED AT THE TIME CALLED OUT IN THE DILS AND LENGTH SPECIFIED SHALL BE LESS THAN 80 INCHES.

- 10 SOLAR CELL POWER HARNESS SHALL BE ROUTED TO ATTACH POINT AND CLAMPED TO PANEL WITH VENDOR SUPPLIED P-CLAMPS USING CUSTOMER SUPPLIED BOLTS AT LOCATIONS INDICATED. FINAL LENGTH OF HARNESS FROM ATTACH POINT TO END OF CONNECTOR TO BE SPECIFIED AT THE TIME CALLED OUT IN THE DILS AND LENGTH SPECIFIED SHALL BE LESS THAN 80 INCHES.
- 11 HARNESS BUNDLES SHALL BE ROUTED THRU P-CLAMPS AS SHOWN. BUNDLE ROUTING TO P-CLAMPS SHALL MINIMIZE HARNESS BENDING BY LIMITING BUNDLE BEND RADIUS TO 3 INCHES MINIMUM FROM FINAL BOND POINT ON PANEL TO P-CLAMPS.
- 12 SOLAR CELL, WIRE, AND ELECTRICAL EQUIPMENT STAY-OUT ZONE. WIRE SIDE ONLY.
- 13 SOLAR CELL, WIRE, AND ELECTRICAL EQUIPMENT STAY-OUT ZONE. WIRE SIDE ONLY. HARNESS BUNDLE MAY PASS THROUGH THIS ZONE.
- 14 PLATINUM RESISTANCE THERMOMETER TO BE LOCATED AT THE CENTER OF THE PANEL ALONG THE Z-AXIS ± 6.00" AND OFFSET FROM THE Z-AXIS IN THE Y-DIRECTION 34.00 ± 6.00" AS SHOWN.
- 15 VENDOR SHALL WRAP HARNESS WITH CONDUCTIVE MATERIAL PER 464-PWR-SPEC-0110 AND GSFC APPROVAL.

- 16. WIRE SIDE OF ARRAY SHALL BE BARE COMPOSITE FACE SHEET.
- 17. SUBSTRATE CTE SHALL BE LESS THAN 3 PPM/K WITH A FLATNESS AS SPECIFIED FOR ASSEMBLY AND OPERATION. PANEL CURVATURE IN LAUNCH CONFIGURATION SPECIFIED IN NOTE 18.
- 18. SOLAR CELLS, WIRING, AND OTHER HARDWARE PROVIDED BY CELL VENDOR SHALL SURVIVE, WITHOUT PERFORMANCE DEGRADATION, 90 G ACCELERATION AND A MINIMUM PANEL CURVATURE RADIUS OF 450 IN.
- 19. ALL COORDINATE SYSTEM AXES SHOWN AND REFERENCED ARE SPACECRAFT COORDINATES WITH THE SOLAR ARRAYS IN THE DEPLOYED CONFIGURATION.

REV	ZONE	DESCRIPTION	DATE	APPROVAL
A		INCORPORATE CHANGES PER EO-0001	8/17/05	J. HAIR
B		INCORPORATE CHANGES PER EO-0002	11/04/06	J. HAIR

**Released**  
**MASTER DRAWING**  
 REVISION BY  
 EO ONLY  
 GSFC FILE COPY  
 05-Jan-06  
 L. KEARNEY



INTERFACE CONTROL DRAWING

ITEM NO.	REQD	RECD	PART NO.	DESCRIPTION	MATERIAL	MATERIAL SPEC & NO.																																														
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Approved by: T. Bowser on 3/23/05 and D. Ward on 03/22/05

THIS DRAWING WAS PRODUCED USING  
 SOFTWARE: ProENGINEER VERSION: 2001  
 FILE NAME: 2062592  
 MODEL NAME: 2062550\_CELL\_ICD

GE 2062592 B  
 CODE: 543 SCALE: 1/10 WEIGHT: SHEET: 1 OF 1